

# *Crop Science*

**Discussion of Label  
Amendment Process &  
2022 Season Investigation**

June 10, 2022



## Agenda

- // Process for determination regarding label changes for 2023 season
- // Expected date for the Dicamba Regulatory Review Interim Decision
- // Overview of Bayer process for investigating and gathering data during 2022 growing season

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# XtendiMax

Label amendment application submitted by Bayer to EPA

- **Proposed Amendment to Bulletins Live! Two:**

**“Postemergence (in-crop) use is permitted ONLY for applications made using a qualified hooded sprayer. If applying with a qualified hooded sprayer, up to two postemergence (in-crop) applications may be made at the use rate of 22 fluid ounces (0.5 lb. a.e. dicamba) per acre up to and including June 30 for dicamba-tolerant soybeans and up to and including July 30 for dicamba-tolerant cotton (or per state-specific restrictions).”**

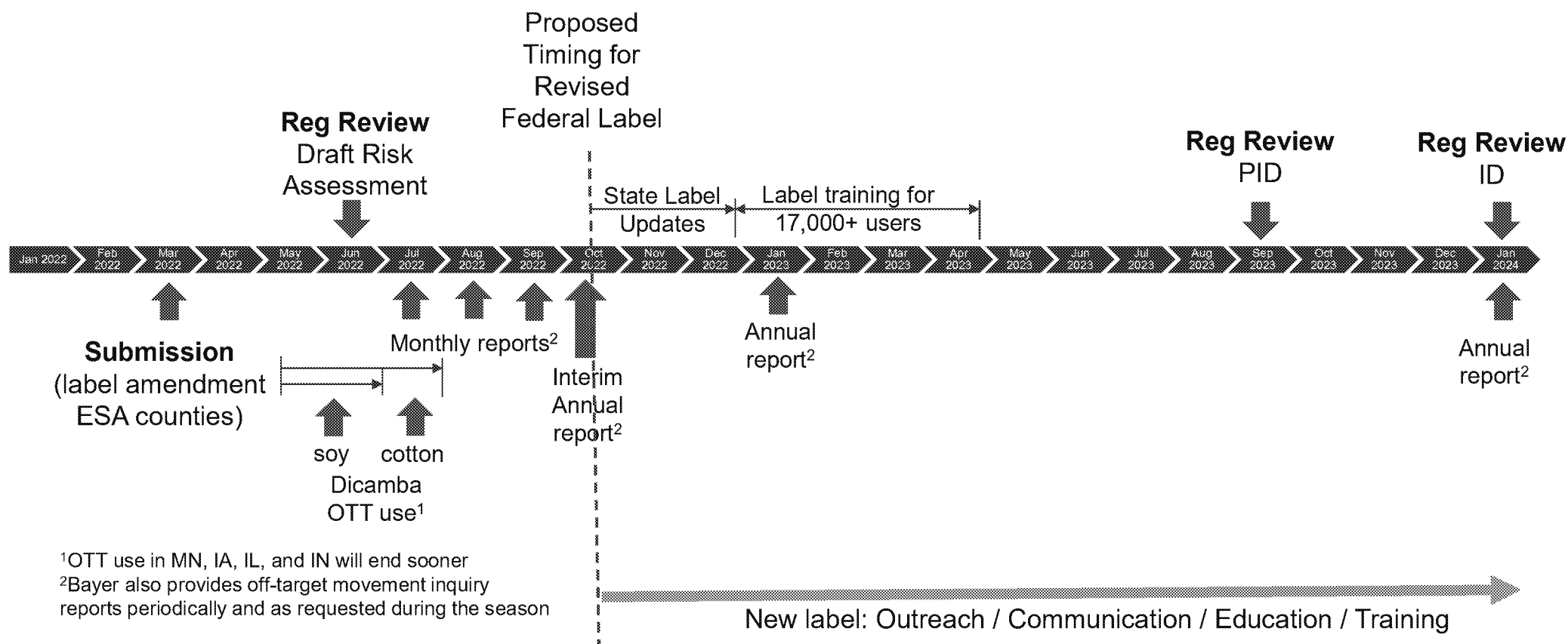
- Submitted on March 18, 2022
- EPA assigned PRIA code 350
- PRIA date: January 11, 2023

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# Timely Revisions to the OTT Label Ensures Successful Communication, Training and Implementation

## 2022 and 2023 Seasons



<sup>1</sup>OTT use in MN, IA, IL, and IN will end sooner  
<sup>2</sup>Bayer also provides off-target movement inquiry reports periodically and as requested during the season



*Bayer Crop Science  
Dicamba Training and  
OTM Investigation Process*



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# Enhancements to BCS Dicamba-Specific Training for 2022

## New Training Content

- Addition of Best Management Practices for dicamba applications in corn
- Updated with new look and functionality of Bulletins Live! Two
- Addition of new state-specific application requirements on 3/15/22 for Iowa and Minnesota
- Addition of state case number cross reference

## Applicators and Growers

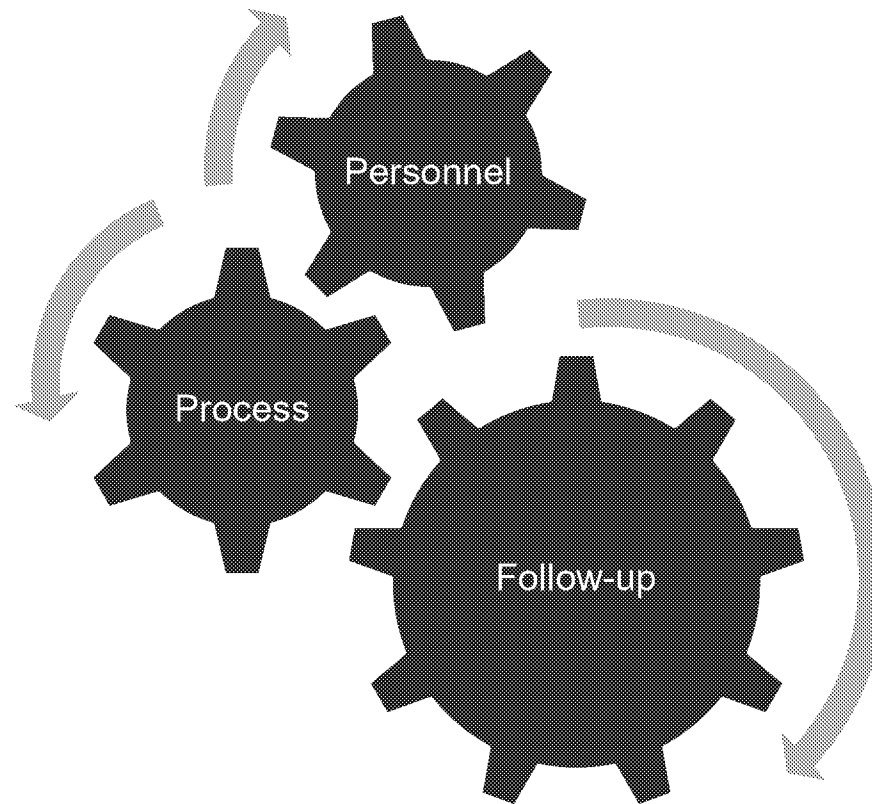
- Informed over 1,350 Iowa users of new state requirements
- Trained over 1,550 Minnesota users after March 15, 2022
- Trained over 17,000 users year to date for 2022
- Updated website with collateral and state labels per EPA requirements

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# The Bayer Investigation Process

Calls to 844-RRXTEND

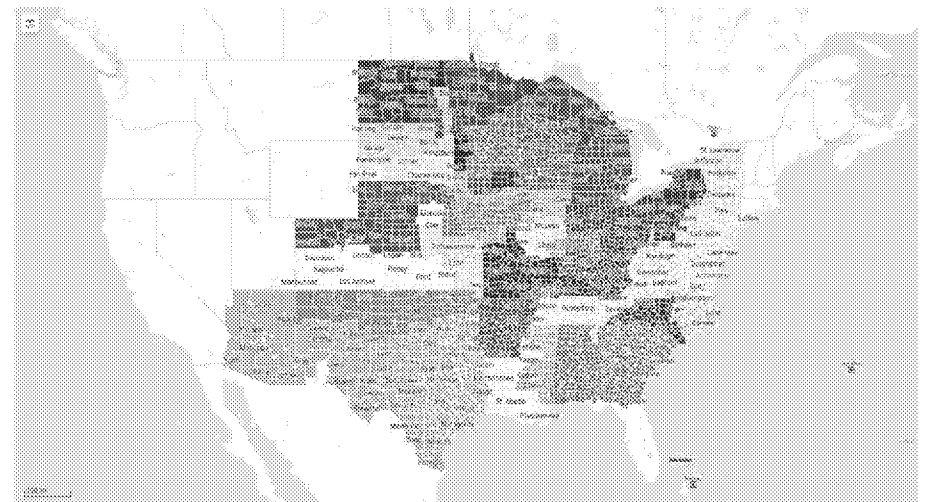


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## Bayer Dicamba Investigation Team

- 3 Bayer Crop Protection Strategy managers
- 5 Regional Engagement Dicamba specialists
- Approximately 60 Field Engagement Specialists
- Dedicated data analyst
- 2 844-RRXTEND call center operators
- Support personnel



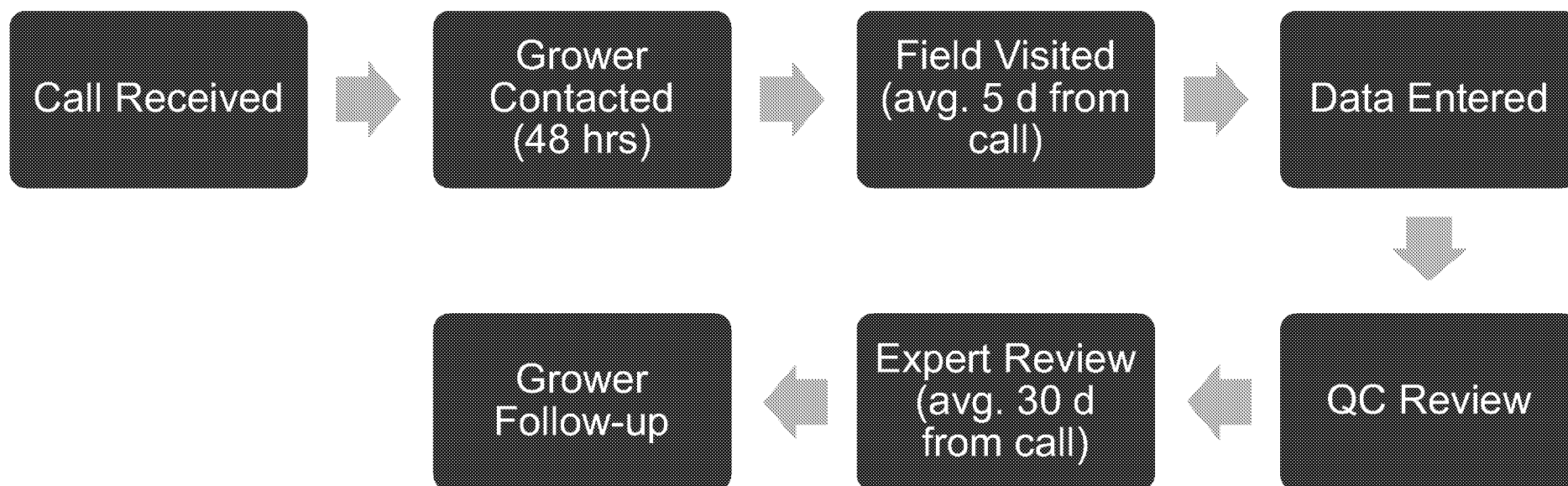
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## Field Investigation Process

General process followed for all inquiries (i.e. weed control, off-target movement)



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# Robust Data Collection Ensures Accurate Investigation

Each inquiry is supported by careful data-backed investigation



## Environmental Data

- Temperature
- Wind speeds
- Wind direction
- Multi-height



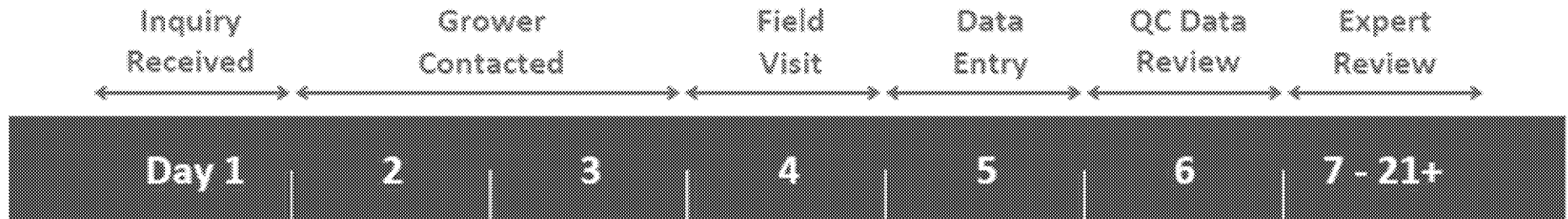
## Geospatial Data

- Field boundary
- Surrounding fields
- Distance to inquiry field
- Nearest weather station



## Application Data

- Acres
- Timing of application
- Tank mix
- Field pictures
- Cropping traits





## Follow-up

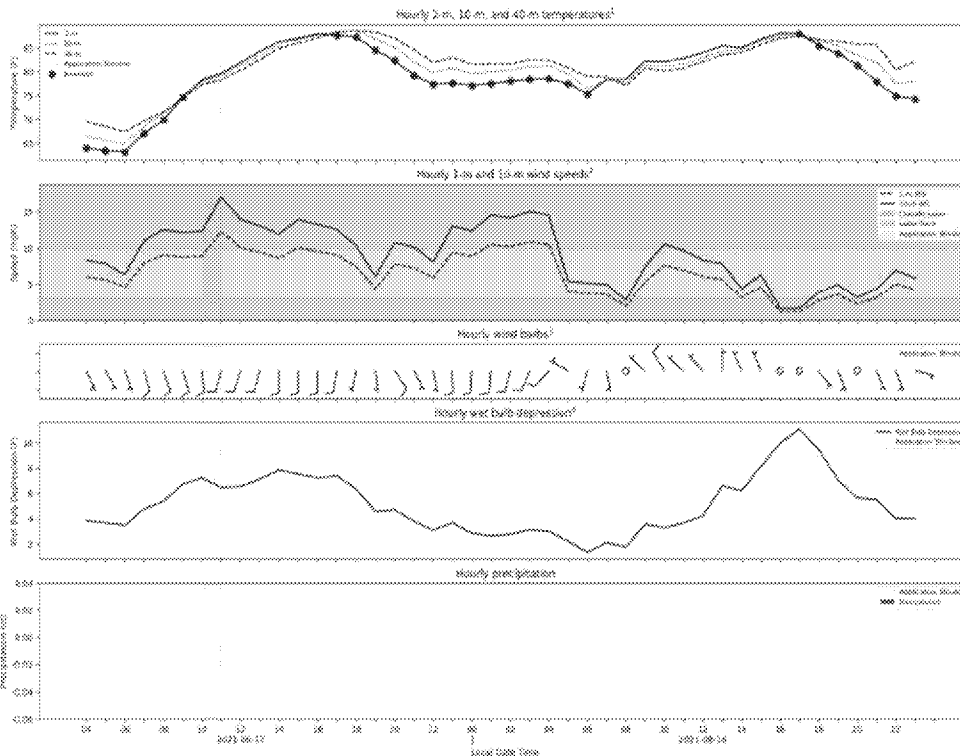
- Reports sent to grower/applicator for all OTM fields investigated
  - All claim data recorded by FES
  - Maps of inquiry field including all adjacent fields/areas
  - Field level weather summary (if application date and time known)
  - Photos (with comments) taken by FES at field investigation
- Feedback from Grower
  - Inclusion of grower information, maps and reissue reports if needed
- Monthly and year-end reports to EPA
- Changes made to BCS training, education and other resources



# In-situ Environmental Conditions During Application Provide Insight Into Potential for Off-target Movement

## Field Level Weather Summary: 2100018783

Field ID	2100018783
Coordinates	54.87, -90.47
Application Start Date (EST)	2021-06-17 18:00:00
Application End Date (EST)	2021-06-17 20:00:00



Application timing

Hourly temp. at 2, 10, 40 m

Hourly wind speed. at 1 and 10 m

Hourly wind direction

Wet bulb temperature

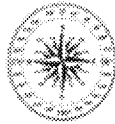
Precipitation

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# In-situ Environmental Conditions During Application Provide Insight Into Potential for Off-target Movement

Field Level Weather Data  
(rows in yellow indicate application period)



Date/Time	Temp 2m (F)	Temp 10m (F)	Temp 40m (F)	Precip (in)	RH (percent)	Wet Bulb Depression 2m (F)	Wind Speed 1m (mph)	Wind Speed 10m (mph)	Wind Direction
2021-06-17 04:00	64.0	66.5	69.6	0.00	88	3.0	6.0	6.3	133
2021-06-17 05:00	63.5	65.7	68.3	0.00	89	3.7	5.8	7.8	148
2021-06-17 06:00	63.2	64.9	67.4	0.00	71	3.5	4.3	6.3	138
2021-06-17 07:00	67.1	68.6	69.7	0.00	62	4.8	7.8	11.6	166
2021-06-17 08:00	69.9	71.2	71.5	0.00	58	5.4	9.0	12.5	168
2021-06-17 09:00	74.6	74.7	74.4	0.00	51	6.7	8.7	12.1	162
2021-06-17 10:00	78.5	78.0	77.3	0.00	48	7.2	8.9	12.2	175
2021-06-17 11:00	79.6	79.1	78.3	0.00	55	6.5	12.2	17.6	196
2021-06-17 12:00	81.9	81.2	80.3	0.00	55	8.3	10.0	13.9	198
2021-06-17 13:00	84.3	83.4	82.5	0.00	53	7.3	9.4	13.8	196
2021-06-17 14:00	86.3	85.7	84.8	0.00	48	7.9	8.6	13.9	188
2021-06-17 15:00	87.0	86.7	86.0	0.00	51	7.5	10.0	13.9	189
2021-06-17 16:00	87.0	87.7	87.1	0.00	54	7.2	9.5	13.2	189
2021-06-17 17:00	87.6	88.4	88.2	0.00	53	7.4	9.8	12.5	190
2021-06-17 18:00	87.3	88.6	88.6	0.00	58	6.3	7.4	10.3	191
2021-06-17 19:00	84.5	86.9	88.3	0.00	68	4.5	4.3	6.6	172
2021-06-17 20:00	82.4	85.1	87.6	0.00	67	4.7	7.7	10.7	144
2021-06-17 21:00	79.2	81.3	84.6	0.00	73	3.8	7.3	10.1	130
2021-06-17 22:00	77.4	79.8	81.9	0.00	77	3.1	5.8	8.1	109
2021-06-17 23:00	77.6	80.1	83.6	0.00	73	3.7	8.4	13.6	179
2021-06-18 00:00	77.1	79.6	81.5	0.00	79	2.8	8.9	12.3	163
2021-06-18 01:00	77.5	80.0	81.6	0.00	68	2.6	10.4	14.5	186
2021-06-18 02:00	78.0	80.3	81.6	0.00	60	2.8	10.2	14.1	195
2021-06-18 03:00	78.4	81.0	82.3	0.00	77	3.1	10.8	15.0	203
2021-06-18 04:00	78.5	81.2	82.4	0.00	78	3.0	10.4	14.5	223
2021-06-18 05:00	77.5	79.5	80.8	0.00	83	2.2	3.9	5.4	297
2021-06-18 06:00	75.3	76.4	79.0	0.00	96	1.3	3.7	5.1	196
2021-06-18 07:00	78.4	78.3	78.9	0.00	84	2.3	3.5	4.9	168
2021-06-18 08:00	78.4	77.8	77.1	0.00	87	1.8	1.9	2.7	344
2021-06-18 09:00	82.2	81.4	80.7	0.00	78	3.5	5.3	7.8	309
2021-06-18 10:00	82.1	81.2	80.2	0.00	77	3.3	7.6	10.5	326
2021-06-18 11:00	82.8	81.6	80.7	0.00	74	3.6	6.9	9.6	308
2021-06-18 12:00	84.0	82.9	82.1	0.00	71	4.2	6.0	8.3	315
2021-06-18 13:00	83.4	84.4	83.5	0.00	58	6.0	5.6	7.8	339
2021-06-18 14:00	85.0	83.6	84.6	0.00	59	6.2	3.1	4.3	335
2021-06-18 15:00	86.8	86.4	85.7	0.00	48	8.1	4.5	6.3	538
2021-06-18 16:00	88.1	87.6	87.6	0.00	39	9.9	1.2	1.6	316
2021-06-18 17:00	88.0	88.0	87.4	0.00	33	11.1	1.2	1.6	41



# Geospatial Mapping is Key to Any Off-Target Investigation Process



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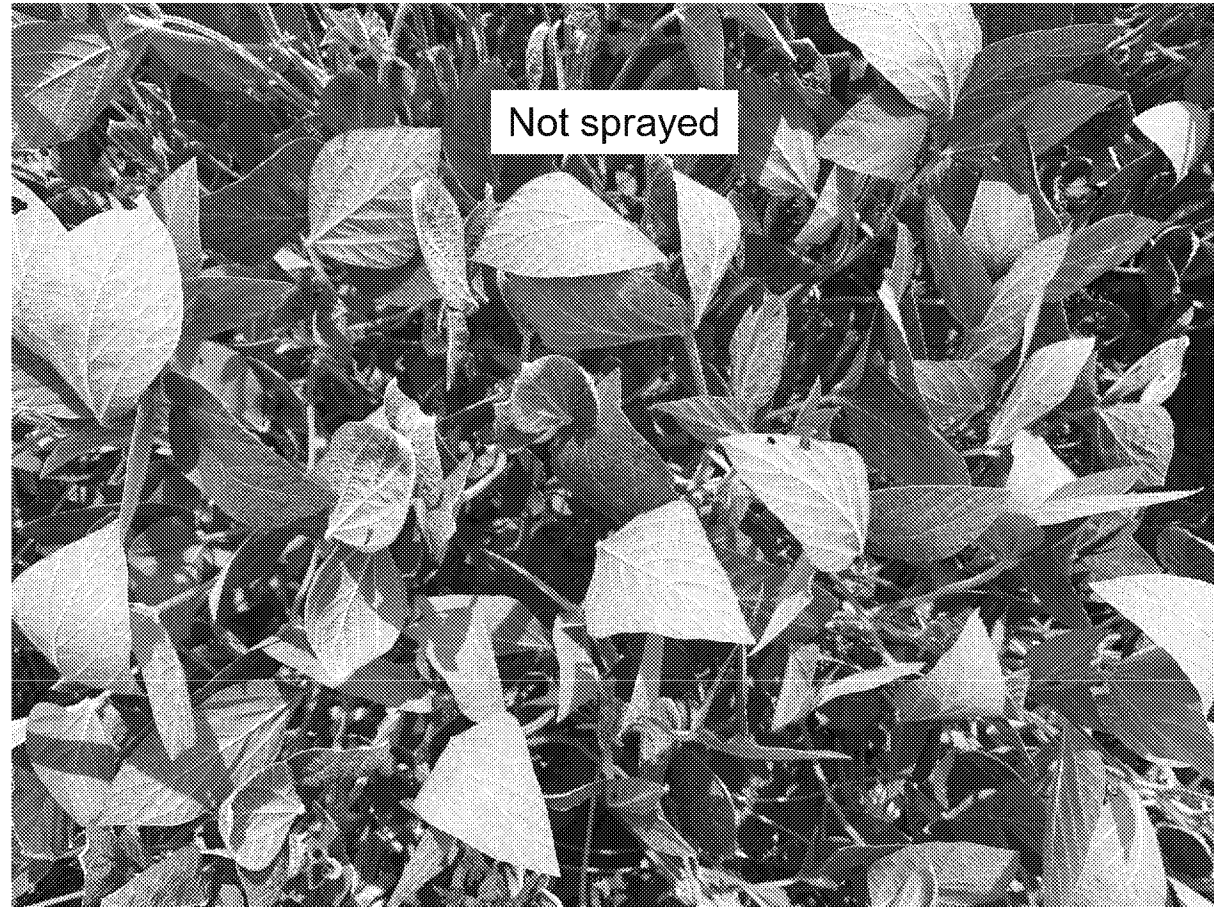
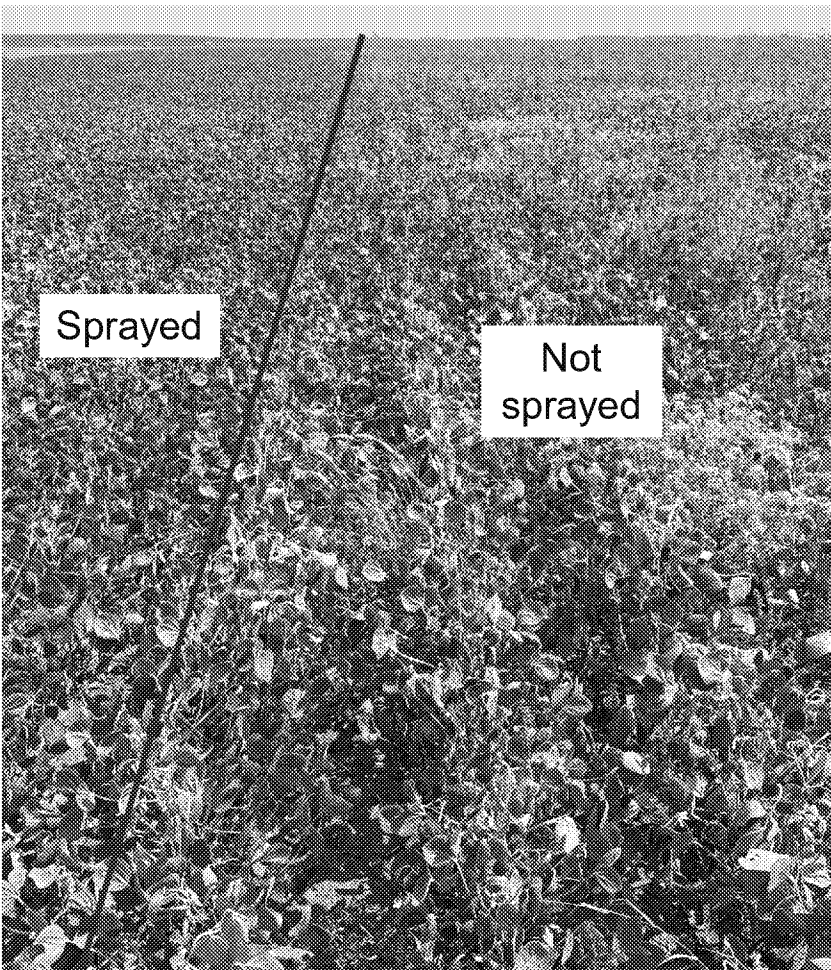
# Geospatial Mapping is Key to Any Off-Target Investigation Process



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## Example from Investigation – Sprayer skip in Enlist field



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## Example from Investigation – no auxin symptomology





**Training & Stewardship**

*Awareness Efforts*



# Training & Stewardship Awareness Efforts

- XtendiMax and Xtend trait user email campaign about mandatory training
- Dedicated Training and Stewardship landing page
- Earned Media with Brownfield
  - Primary article promoting applicator training (3 total placements)
- Social Media (Facebook & Twitter) campaigns
  - Spray Early Messaging
  - Mandatory Training Messaging

BROWNFIELD

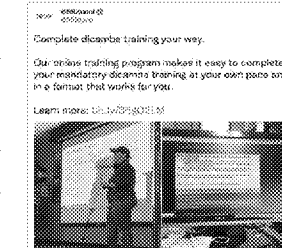
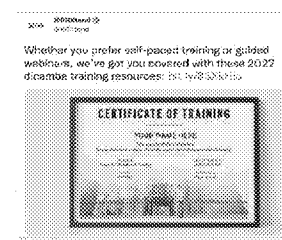
NOW'S THE TIME FOR  
EDUCATIONAL TRAINING

February 2, 2022 By Parker Schulte Filed under: Managing For Profit, Podcasts

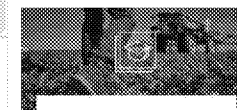


Most sprayers are still parked for the season, making now a great time for farmers and applicators to complete their mandatory training.

In this Managing for Profit, week, Growth, Yield, Management and Chemistry Stewardship manager at Bayer talks about applicator training and the importance of new requirements.



Choosing between in-person hands-on training or a self-paced online training program is a decision you'll need to make. We've got you covered with these 2022 dicamba training resources: [bit.ly/2022dicamba](#)



Register now for the self-paced online training, guided live webinars or in-person training sessions to check mandatory training before it's too late. [bit.ly/2022dicamba](#)



It's that time of year again — mandatory annual dicamba training. Our records show you completed the dicamba training process in previous years. Don't forget to register for this year's mandatory dicamba training for the 2022 season.

There's a few ways to complete the training:

- Self-paced online training
- Guided webinars
- Limited in-person events

We appreciate your support and are glad to support you, too. Sign up today and check out more pre-training resources below.

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## Path Forward with EPA feedback

- We welcome a discussion on the goal of gaining clarity for the label proposal by fall
- Through the monthly reports we submit to EPA, we look forward to engaging on the spray season learnings from our investigation process
- It is essential to Bayer to get EPA feedback on a path forward



*Thank  
you*

